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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/693,351	10/24/2003	Mark Vincent	UDLZ 2 00022-2	2709		
27885	27885 7590 09/19/2005			EXAMINER		
FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND. OH 44114			LIN, ING HOUR			
			ART UNIT	PAPER NUMBER		
			1725			
				DATE MAILED: 09/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

				(1)			
		Application No.	Applicant(s)	<u>  1</u>			
		10/693,351	VINCENT ET AL.				
Office Act	ion Summary	Examiner	Art Unit				
		Ing-Hour Lin	1725				
	ATE of this communication a	appears on the cover sheet wi	ith the correspondence ad	dress			
Period for Reply							
WHICHEVER IS LON  - Extensions of time may be a after SIX (6) MONTHS from  - If NO period for reply is spec  - Failure to reply within the set	GER, FROM THE MAILING available under the provisions of 37 CFR the mailing date of this communication. Cified above, the maximum statutory period to rextended period for reply will, by state ffice later than three months after the main three	PLY IS SET TO EXPIRE 3 M DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MON litute, cause the application to become AB ailing date of this communication, even if	CATION. reply be timely filed NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).				
Status							
1)⊠ Responsive to c	communication(s) filed on 24	1 October 2003.					
2a) ☐ This action is FI	· · · · · · · · · · · · · · · · · · ·	his action is non-final.					
<u>'=</u>	<i>'</i> —	wance except for formal matt	ters, prosecution as to the	e merits is			
		er <i>Ex parte Quayle</i> , 1935 C.D					
Disposition of Claims							
4)⊠ Claim(s) <u>18-41</u> i	is/are pending in the applicat	tion.					
	e claim(s) is/are withdo						
5) Claim(s)	• • •						
6)⊠ Claim(s) <u>18-41</u> i	s/are rejected.						
7) Claim(s)	is/are objected to.						
8) Claim(s)	are subject to restriction and	d/or election requirement.					
Application Papers							
9)⊠ The specification	n is objected to by the Exami	iner.					
•	•	are: a) <b>⊠</b> accepted or b)□ o	bjected to by the Examine	er.			
		he drawing(s) be held in abeyan	•				
		ection is required if the drawing	• •	FR 1.121(d).			
11)☐ The oath or decla	aration is objected to by the	Examiner. Note the attached	d Office Action or form PT	O-152.			
Priority under 35 U.S.C.	§ 119						
12)⊠ Acknowledgmen	t is made of a claim for forei	ign priority under 35 U.S.C. §	\$ 119(a)-(d) or (f).				
<del>-</del>	ne * c)☐ None of:	J. F					
1.☐ Certified o	1. Certified copies of the priority documents have been received.						
2.⊠ Certified o	copies of the priority docume	ents have been received in A	pplication No. <u>10/048,695</u>	<u>5</u> .			
3. Copies of	the certified copies of the pr	riority documents have been	received in this National	Stage			
	n from the International Bure						
* See the attached	detailed Office action for a li	ist of the certified copies not	received.				
Attachment(s)		_					
Notice of References Cite     Notice of Draftsperson's P	ed (PTO-892) Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
	atement(s) (PTO-1449 or PTO/SB/0		nformal Patent Application (PTO	)-152)			

Hi

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

#### **DETAILED ACTION**

1. In view of the interview held on September 8, 2005, the first set of claims (claims 1-24) is canceled and the preliminary claims 18-41 are examined in this office action. However, the numbering of the preliminary claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not). In response of this office action, applicant is required to renumber the claims 18-41 thus canceling claims 1-41 and presenting new claims beginning from claim 42.

### Specification

2. The specification is objected to because there is a lack of section headings:

CROSS-REFERENCE TO RELATED APPLICATIONS;
BACKGROUND OF THE INVENTION
BRIEF SUMMARY OF THE INVENTION; BRIEF DESCRIPTION OF THE
SEVERAL VIEWS OF THE DRAWING(S); and
DETAILED DESCRIPTION OF THE INVENTION.
Correction is required

3. The specification is objected to because it is believed that the present application should instead be a <u>continuation</u> of 10/048,695, <u>rather than a divisional</u>. Application No. 10/048,695 was not subject to a restriction requirement (all original claims were examined). In addition, claims in the present application are subject to double patenting rejections with 10/048,695.

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## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

#### **Double Patenting**

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 18, 34 and 38 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 10, 21-22 and 27 of copending Application No. 10/048695. Although the conflicting claims are not identical, they are not patentably distinct from each other.

Although independent claims 18, 34 and 38 of the present application do not include some additional limitations set forth at the end of independent claim 10 of 10/048,695, it would have been obvious to one of ordinary skill in the art to exclude these additional features, as open-ended "comprising" language exists in the present application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. Claims 18-21, 24, 27, 32-33, 38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gardner in view of Gamble and further in view of Augustine, III.

Gardner (col. 3, lines 4+) substantially teaches the claimed distributor device (rectangular or box-like receptacle 7 of material such as steel) having long walls, short walls and base member (bottom) for use in continuous casting aluminum by positioning the receptacle in a mold 1 and receiving molten aluminum from pouring spout 5 and distributing the molten aluminum

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into mold cavity of the mold 1 through the one or more horizontal elongated outlet opening (slots 13) on the lower parts of short walls of the receptacle 7.

Gardner fails to teach the use of a refractory material for coating the receptacle and a downwards inclined base member (bottom) towards the outlet opening (slots 13). However, Gamble (col. 2, lines 15+) teaches the use of the coating refractory material for the purpose of providing a coated receptacle with the property of non-wetting and easily cleaned after use in casting the molten aluminum. Augustine, III (col. 3, lines 59+) teaches the use of a downwards inclined base member (bottom) having a raised flow deflector (diffuser having a domed diverter 31) towards the outlet openings 23 or 25 for the purpose of guiding molten aluminum flow into the mold cavity and providing an easily cleaned bottom after use in casting the molten aluminum. It would have been obvious to one having ordinary skill in the art to provide Gardner the use of a refractory material for coating the receptacle and a downwards inclined base member (bottom) towards the outlet opening as taught by Hanano in order to effectively reuse the receptacle and guide the molten aluminum flow into the mold cavity and providing an easily cleaned bottom after use in casting the molten aluminum

9. Claims 22-23, 25, 28-31, 34-37, 39 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gardner in view of Gamble and further in view of Augustine, III and Tremblay.

Gardner in view of Gamble and further in view of Augustine, III fails to teach the use of receptacle having side walls separation or width increased towards ends of the side walls or/and the use of porous element.

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However, Tremblay (col. 4, lines 35+ and Fig. 9) teaches the use of a filtration and distribution device 41 having side walls separation or width increased towards ends of the side walls including the use of glass fiber coated porous element (screen 49) for the purpose of filtrating and guiding the molten aluminum flow into the mold cavity. It would have been obvious to one having ordinary skill in the art to provide Gardner in view of Gamble and further in view of Augustine, III the use of a receptacle having side walls separation or width increased towards ends of the side walls for accommodating a filtration and distribution device having side walls separation or width increased towards ends of the side walls as taught by Tremblay in order to effectively filtrate and guide the cleaned molten aluminum flow into the mold cavity.

10. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gardner in view of Gamble and further in view of Augustine, III and Bebber et al.

Gardner in view of Gamble and further in view of Augustine, III fails to teach the use of heating means.

However, Bebber et al (col. 3, lines 10+) teaches the use of heating means (plasma burners 14) for the purpose of effectively heating the distributor trough 10. It would have been obvious to one having ordinary skill in the art to provide Gardner in view of Gamble and further in view of Augustine, III the use of heating means as taught by Bebber et al in order to effectively heat the receptacle (distributor trough).

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The

examiner can normally be reached on M-F (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9. H X.

I.-H. Lin

9-12-05

KEVIN KERNS Kevin Kerns 9/15/05 PRIMARY EXAMINER

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